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Novel approaches for the redesign of flavoprotein Oxidases

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Stellingen

Behorende bij het proefschrift

Novel approaches for the redesign of flavoprotein oxidases

van Remko T. Winter

te verdedigen op vrijdag 13 januari 2012

1. De Tat (twin arginine translocation) eiwittransportroute kan misbruikt worden voor de export van cofactor bevattende fusie-eiwitten van het cytoplasma naar het periplasma in *E. coli*.
[hoofdstuk 3]
2. Als er wordt beweerd dat het cytochroom *c* maturatie apparaat (Ccm) alleen het CXXCH motief nodig heeft voor covalente heem koppeling dan wordt dit ook letterlijk zo bedoeld; de aanwezigheid van enige secundaire eiwitstructuur is nadelig voor de covalente koppeling van heem.
[hoofdstuk 4]
3. Het kloneren van genen en maken van ingewikkelde banken door promovendi is – zuiver gekeken vanuit het oogpunt van publiceerbare onderzoeksresultaten behalen – pure tijdsverspilling, en loopt al snel uit op een ‘boondoggle’.
[hoofdstuk 6]
4. Universitaire onderzoekers zouden vaker over onderwijs moeten publiceren. Dit zorgt voor een verhoging van de kwaliteit van het gegeven onderwijs, dat immers één van de kerntaken van de universiteit is.
[hoofdstuk 7]
5. The presence of a 6xHis tag does not inhibit the proper biochemical characterization of a protein.
[chapter 5]
6. The majority of algorithms used to optimize genes for expression in heterologous hosts are not based on sufficient empirical evidence to guarantee success.
[chapter 5]
7. While high impact journals take a dim view on perissology, a slight increase in this characteristic benefits the clarity and reproducibility of research papers published in such journals.
8. Emus are undoubtedly one of the dumbest species of birds in existence. Their eggs, however, are the source of a protein which can be used for some intelligent enzyme design.
[Chem Commun. **47**, 11050]
9. Charles Caleb Colton’s well-known quote “Imitation is the sincerest form of flattery” rings especially true in modern science.
10. The nutritional value of Vegemite (or Marmite) should be clear to anyone who has ever prepared a bacterial culture medium.